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- (74) Agents: HILL, Christopher, Michael et al.; Page White & Farrer, 54 Doughty Street, London WC1N 2LS (GB).
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- (71) Applicants (for all designated States except US): XZIL-LION GMBH & CO. KG [DE/DE]; Industriepark Hochst, Building G865, D-65926 Frankfurt am Main (DE). PRO-TEOME SCIENCES PLC [GB/GB]; Coveham House, Downside Bridge Road, Cobham, Surrey KT11 3EP (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SCHAFER, Jurgen [DE/DE]; Am Langen Weg 2, D-36341 Lauterbach (DE). HAMON, Christian [FR/DE]; Luthmerstrasse 49, D-65934 Frankfurt am Main (DE). SCHWARZ, Josef [DE/DE]; Voelklinger Weg 7, D-60529 Frankfurt am Main (DE). PEARCE, Christopher [GB/GB]; Coveham House, Downside Bridge Road, Cobham, Surrey KT11 3EP (GB).

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(54) Title: CHARACTERISING POLYPEPTIDES

(57) Abstract: Provided is a method for characterising an analyte by matrix assisted laser desorption ionisation (MALDI) mass spectrometry, which method compared to spectrometry, which method analyte; (b) embedding the labelled analyte in a matrix formed from at least one compared frequency, to form a labelled analyte; (c) desorbing the embedded labelled analyte by exposing it to light having the prelight, to form an embedded labelled analyte; and (d) detecting the desorbed analyte by mass spectrometry to characterise the spectrometry, which method comprises: (a) labelling the analyte with a light-absorbing label that absorbs light at a pre-determined analyte; wherein the light absorbing label comprises a fluorophore moiety, and wherein prior to detecting by mass spectrometry, the analyte is selected for detection on the basis of its fluorophore moiety.